

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A process for fixing at least one balancing weight to at least one location on a hollow shaft, for torque transmission at rotational speeds in the range of 3000 rpm to 12000 rpm in a drive system for a vehicle, comprising securing the at least one balancing weight to the at least one location by soldering without a shielding gas, wherein one of a tin-based and zinc-based flux-free solder with a soldered tensile strength greater than 100 N/mm² is applied as a foil.

2-18. (Cancelled)

19. (Previously Presented) A process according to Claim 1, wherein the at least one balancing weight is secured by soft soldering.

20. (Previously Presented) A process according to Claim 19, wherein the hollow shaft, at the at least one location, does not exceed a maximum temperature of 450°C during soldering.

21. (Cancelled)

22. (Previously Presented) A process according to Claim 1, wherein the soldering step at the at least one location lasts no longer than 3 seconds.

23. (Previously Presented) A process according to Claim 20, wherein the soldering step at the at least one location lasts no longer than 3 seconds.

24. (Previously Presented) A process according to Claim 1, wherein the soldering step at the at least one location lasts no longer than 3 seconds.

25. (Previously Presented) A process according to Claim 1, wherein during soldering, a joining force of less than 2000 Newton is exerted on the at least one balancing weight towards the hollow shaft.

26. (Previously Presented) A process according to Claim 20, wherein during soldering, a joining force of less than 2000 Newton is exerted on the at least one balancing weight towards the hollow shaft.

27. (Previously Presented) A process according to Claim 1, wherein the at least one balancing weight is first provided with solder material and, thereafter, fixed to the hollow shaft.

28. (Previously Presented) A process according to Claim 27, wherein a plurality of balancing weights are fixed, and at least in some cases, different quantities of solder material are provided at the balancing weights.

29. (Previously Presented) A process according to Claim 1, wherein at least one of the following heat sources is used for the soldering step: inductor, convector.

30. (Previously Presented) A process according to Claim 1, wherein at least a balancing of the hollow shaft and the soldering of the at least one balancing weight are carried out on a single machine.

31. (Currently Amended) A process for fixing at least one balancing weight to at least one location on a hollow shaft, for torque transmission at rotational speeds in the range of 3000 rpm to 12000 rpm in a drive system for a vehicle, comprising securing the at least one balancing weight to the at least one location by brazing without a shielding gas, wherein one of a tin-based and zinc based flux-free solder with a soldered tensile strength greater than 100 N/mm² is used.